

***CSA (Communications Satellite Application) WG activities***

***Proposed Outline***

1. The scope /objectives of CSA WG activities

The CSA WG has been discussing many topics on satellite communications matters and has been providing good opportunities to exchange each country's status report on, in particular, digital divide issues as well as the broadband service in the Asia-Pacific region. The CSA WG will share the experiences for realizing cooperation among countries in the region, regarding applications of satellite communications for tele-education, tele-medicine and disaster management, taking into account the needs to resolve the digital divide in the region. On the other hand, new satellite applications appeared and became available in last few years. The space-based automatic identification system (AIS), which is a new application of satellite communications, is one of the solutions of ship monitoring and the satellite-based Positioning, Navigation and Timing (PNT) is also one of the important satellite applications.

In consideration of the above situation and previous APRSAF-18 discussion, the outline of the CSA WG in the APRSAF-19 is as follows:

1) Sharing experiences and opportunities in order to diffuse the use of applications regarding tele-education, tele-medicine, disaster management and mitigation, and discussing new applications or concepts of the satellite communications

Until the previous meetings, many discussions have been made and useful information has been exchanged. In the last APRSAF-18, the CSA WG recognized the significance and effectiveness of satellite communications in the disaster relief and restoration activities, and shared the experiences learned from the recent activities. The CSA WG will discuss continuously these issues. Moreover, some new applications and efforts were planned, demonstrated and operated in the region. The CSA WG will also have more meaningful discussion

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about mechanisms for technology transfer with the aim of not only demonstration but also continuous use, the CSA WG will continue these activities under the regional cooperation and aim to promote new applications or concepts of the satellite communications in the region with active participation of satellite operators.

2) Sharing the information of technical trend for ship monitoring

There are several kinds of ship monitoring system, such as the automatic identification system(AIS) in the coastal area, LRIT in ocean, and so on. A space-based AIS, which is a new application of satellite communication in the world and enables to expand the monitoring area from coastal area to ocean, is one of the solutions of ship monitoring. This trend was started by Europe and America several years ago, but now some countries in Asia-pacific region are performing this space-based AIS activity. In the last APRSAF-18, the CSA WG and the EO WG held the joint session titled "Share the information of technical trend for ship monitoring in the Pacific region". The CSA WG will promote this space-based AIS activity in the region.

3) Promotion for the activities on the Global Navigation Satellite System (GNSS)

The satellite-based Positioning, Navigation and Timing (PNT) becomes widely used in the Asia-Pacific countries. According to the recommendation of the APRSAF-15, the Asia Oceania regional workshop on Global Navigation Satellite Systems (GNSS) has been continuously held and the "Asia Oceania Multi-GNSS Demonstration Campaign" was successfully established. The summary of the 4th Asia Oceania Regional Workshop on the GNSS will be reported in this WG. The CSA WG will support relevant activities and encourage the expansion of the satellite-based PNT applications commencing with the QZS-1 satellite "MICHIBIKI". Especially, the activities of the disaster mitigation and management working group in the campaign will be introduced, and the CSA WG will discuss potential utilization of these activities for the Sentinel Asia.

2. The result of CSA WG activities in APRSAF-18

See the attached APRSAF-18 adopted recommendations.

3. The Draft of Agenda

- 1) Opening of the session
- 2) Adoption of the agenda
- 3) General introduction and guidance of CSAWG
- 4) Presentations of communications satellite systems and applications
  - a. Communications Satellite Systems
  - b. Current Status in Asia Pacific Region
- 5) Activity reports of communications satellite applications
  - a. Study report
  - b. Country report
  - c. General Discussion
- 6) Activity reports of ship monitoring (Space-based AIS)
- 7) Activity reports of the Multi GNSS
  - ① Report of 4th Asia Oceania Regional Workshop on the GNSS
  - ② Introduction of the disaster mitigation and management working group in the “Asia Oceania Multi-GNSS Demonstration Campaign”
  - ③ Study report
  - ④ General Discussion
- 8) Overall discussion and future work
- 9) Closing of the session